

FIG. 1

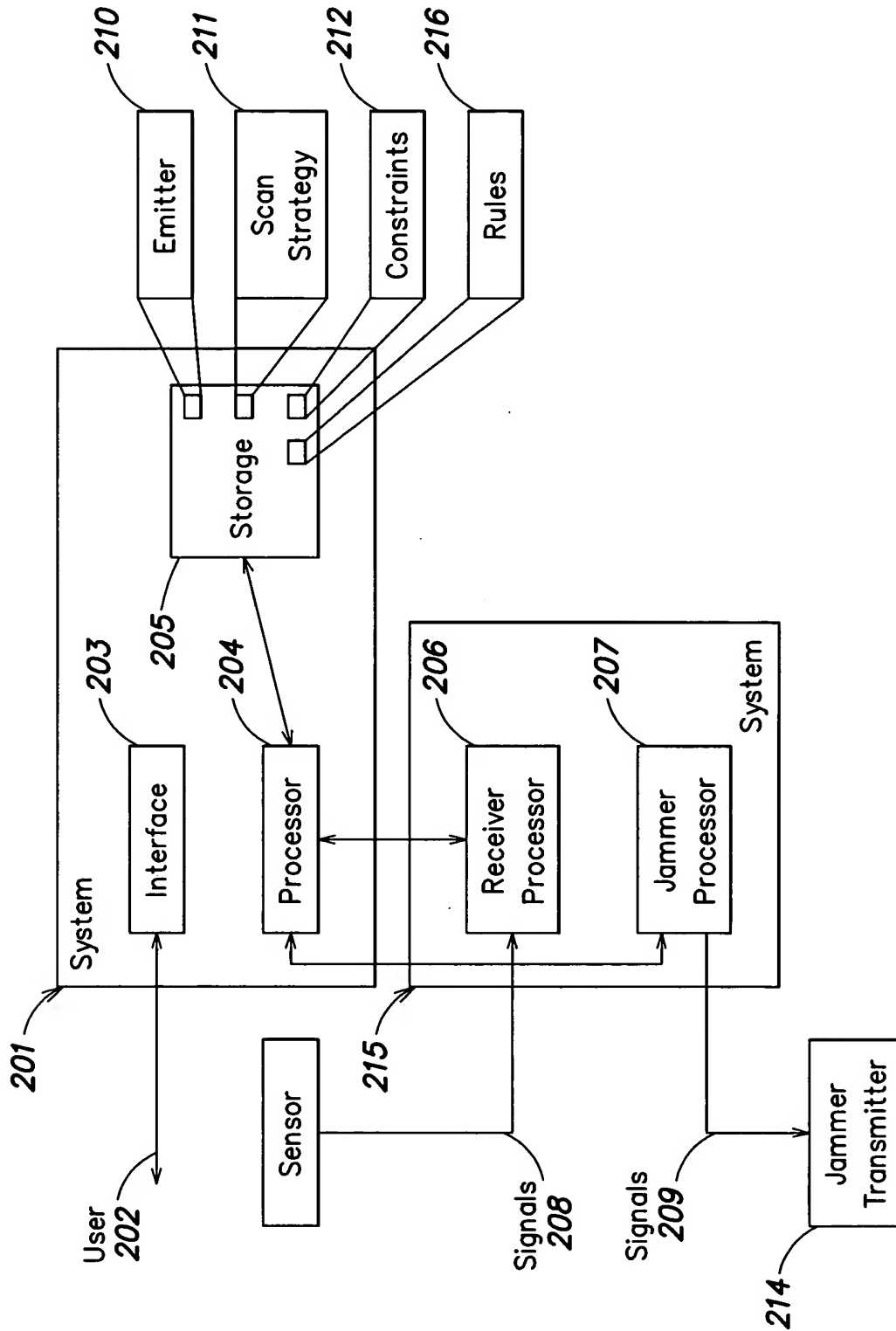


FIG. 2

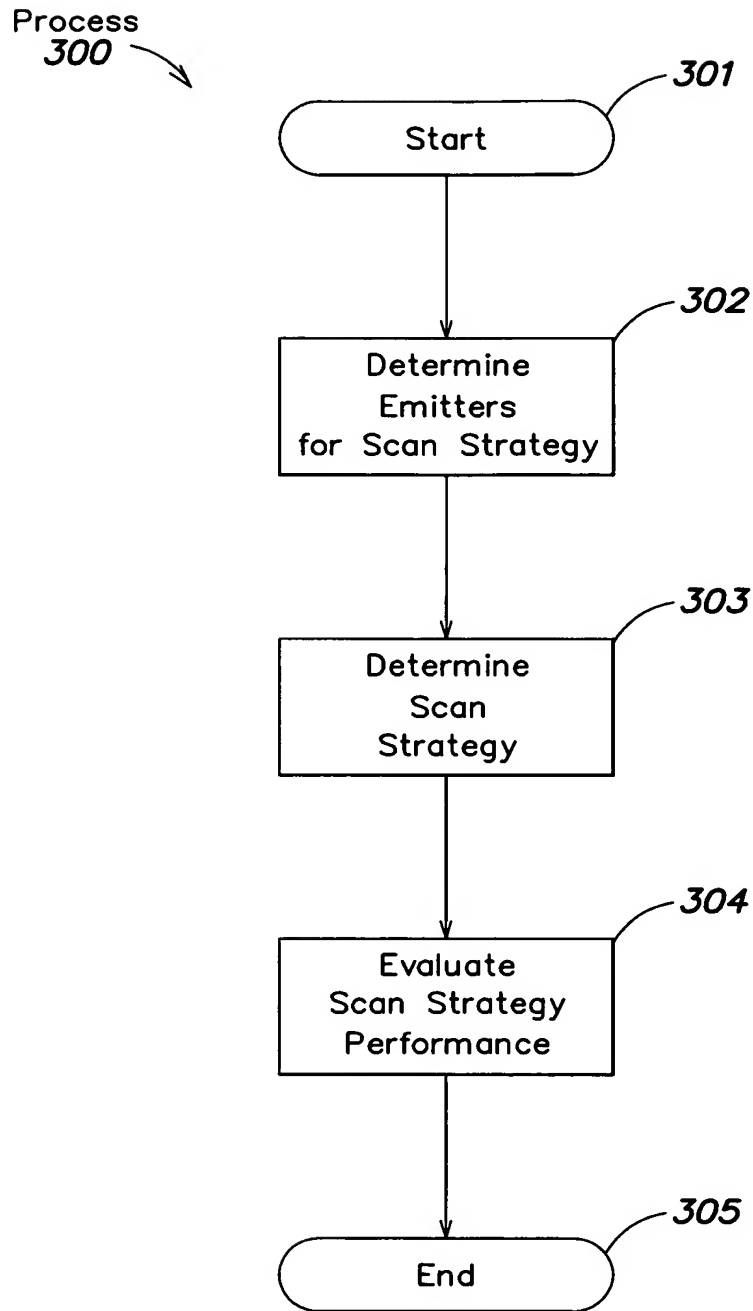


FIG. 3



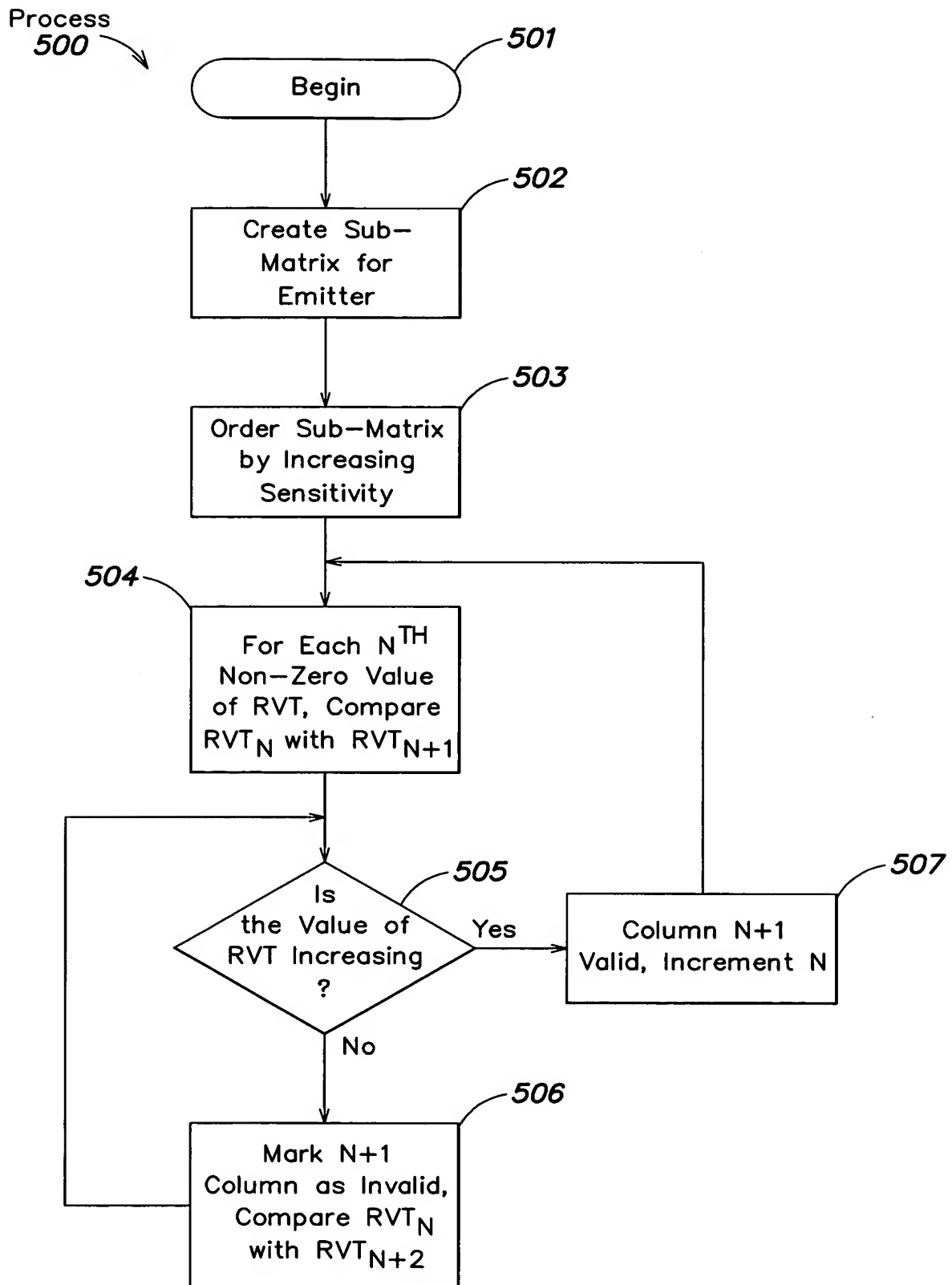


FIG. 5

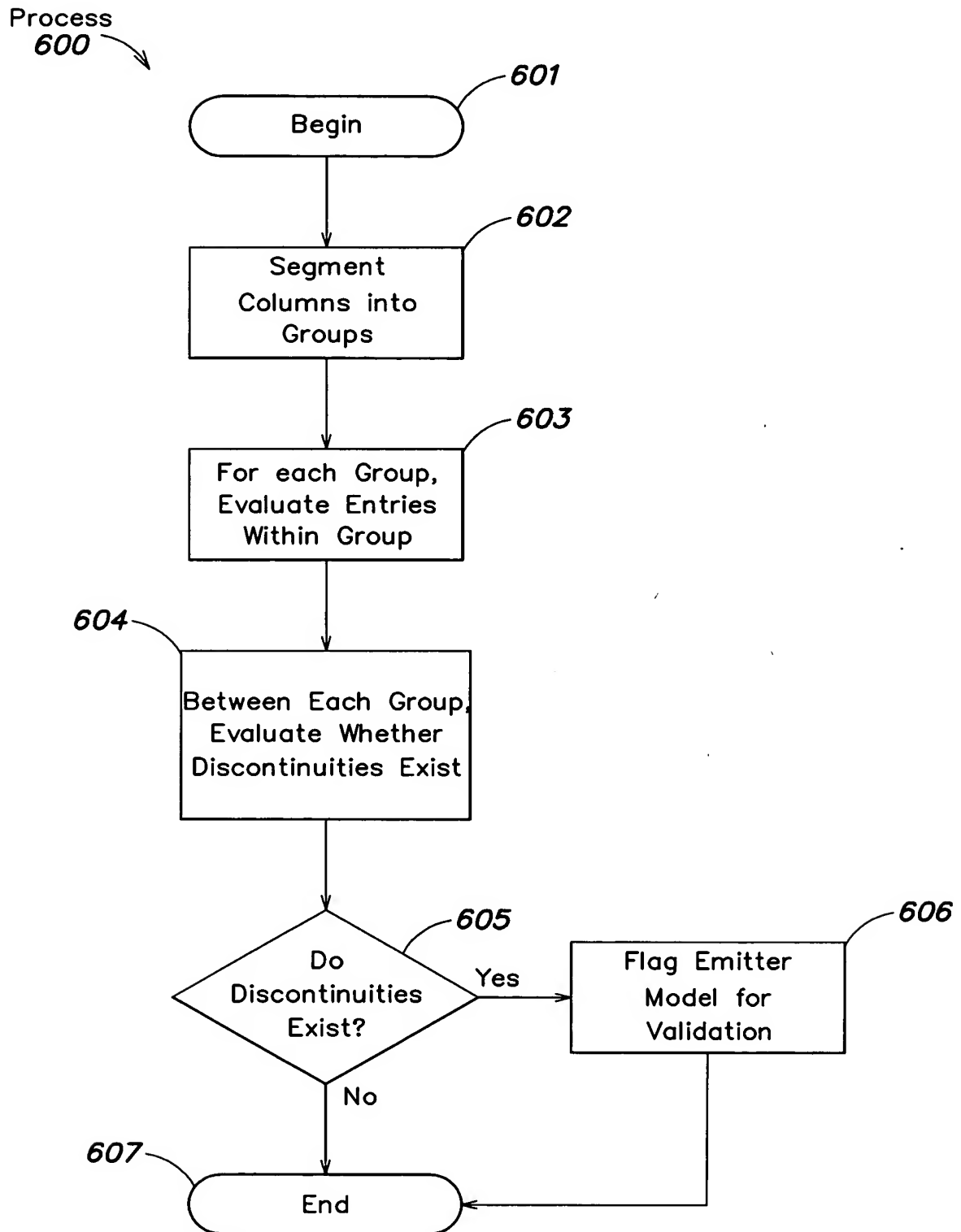


FIG. 6

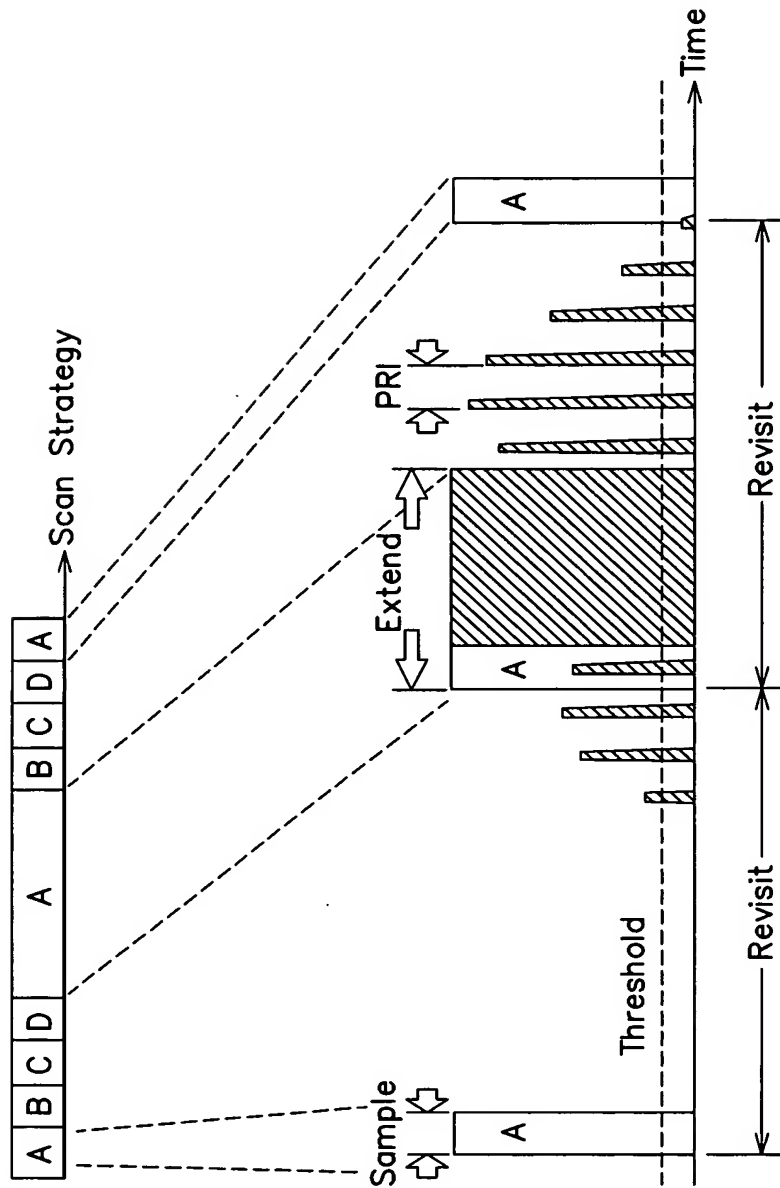


FIG. 7

NO PULSE GROUPING LOGIC:

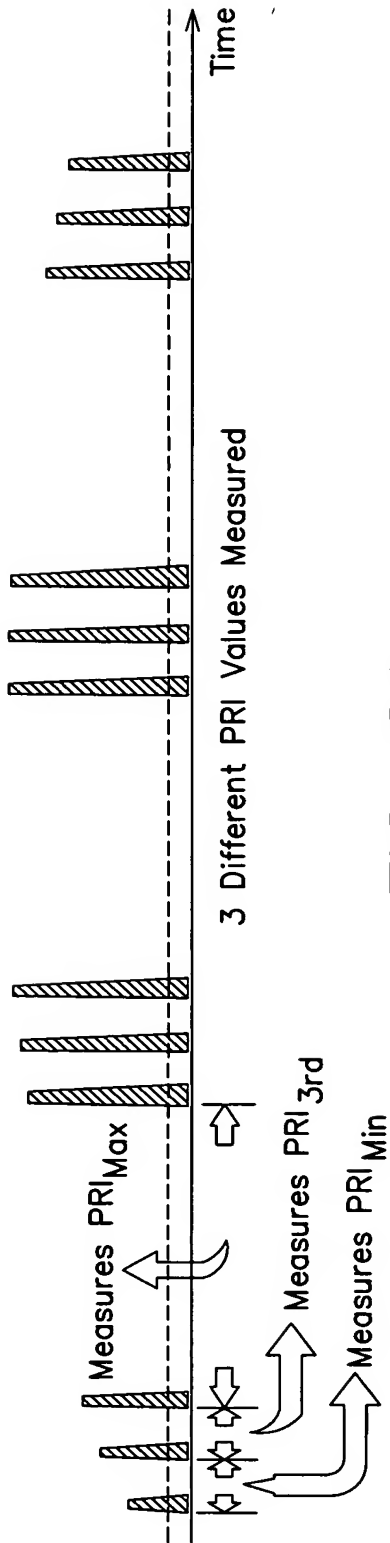


FIG. 8A

WITH PULSE GROUPING LOGIC:

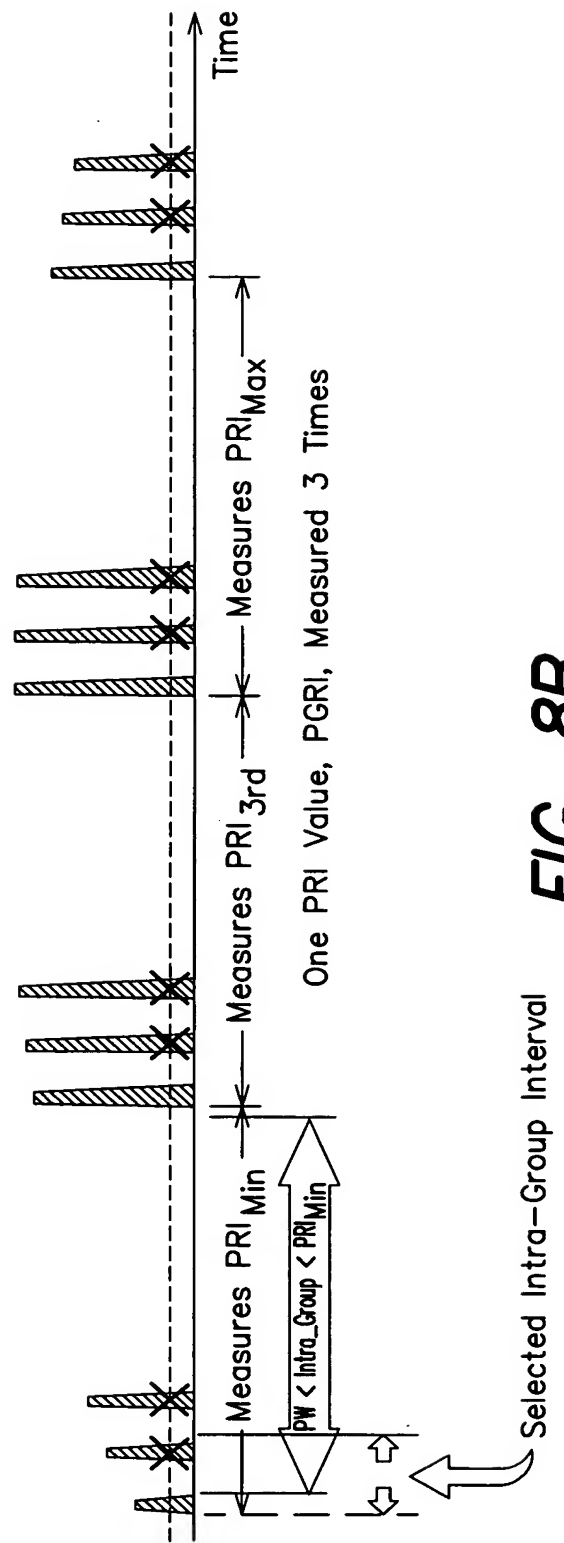


FIG. 8B

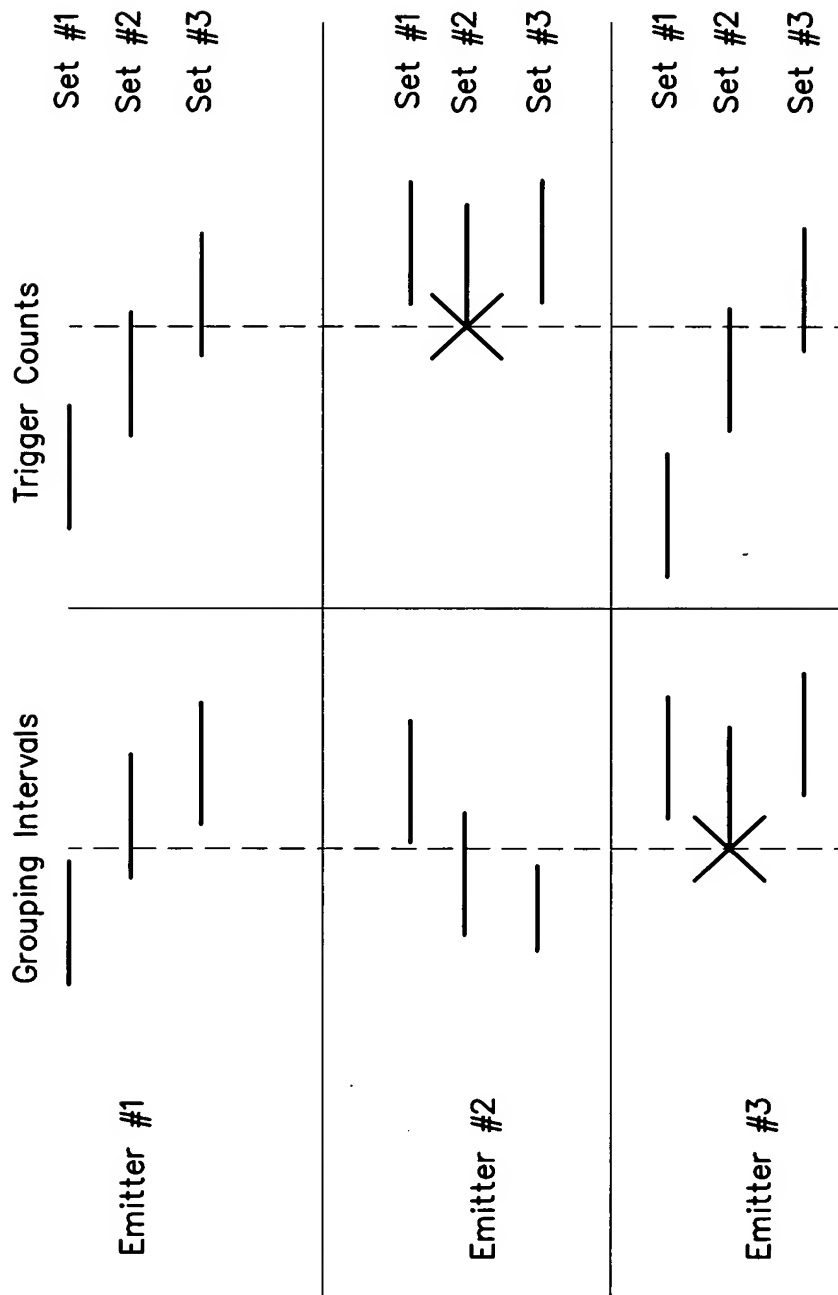
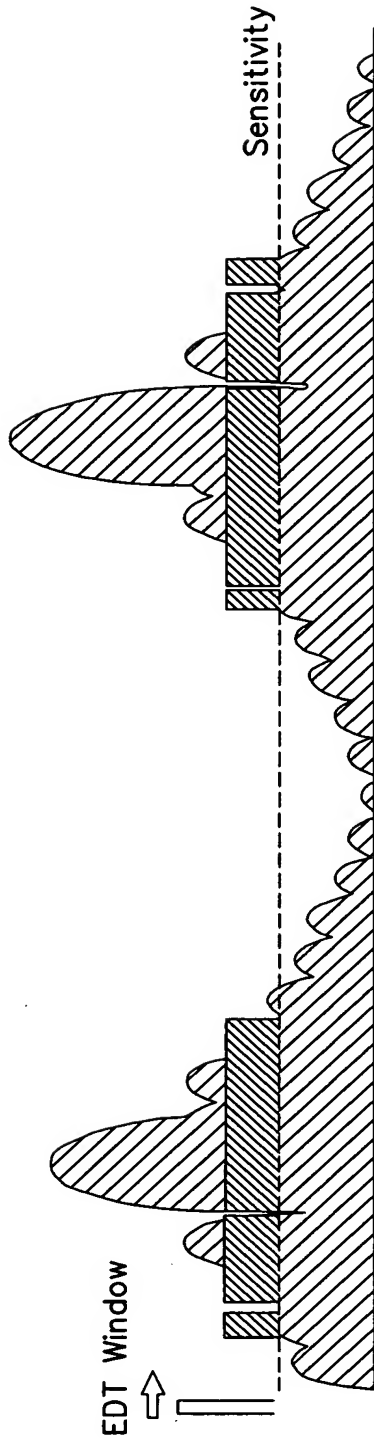
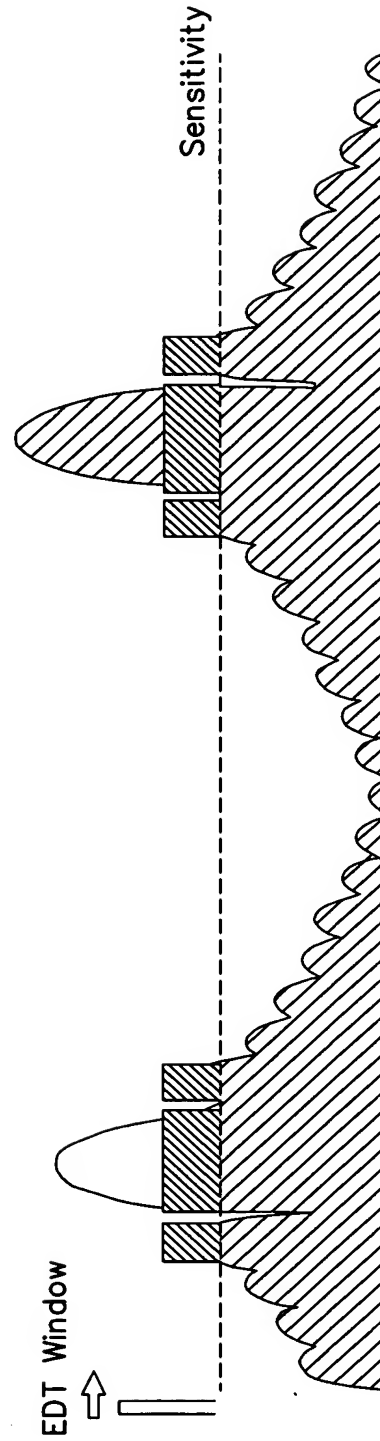


FIG. 9



Discrete Illuminations (TIBS)

FIG. 10A



Discrete Illuminations (TIBS)

FIG. 10B

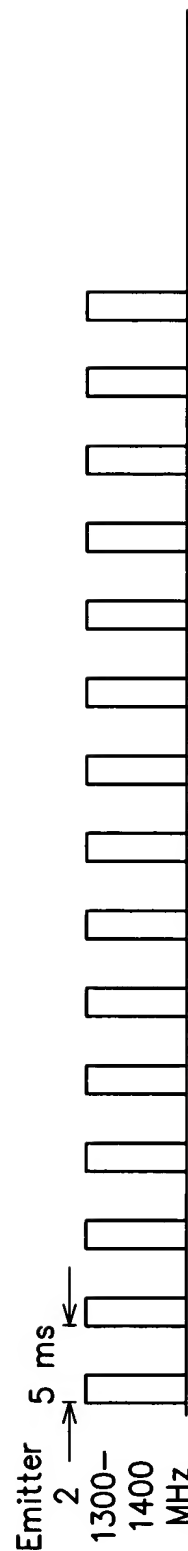
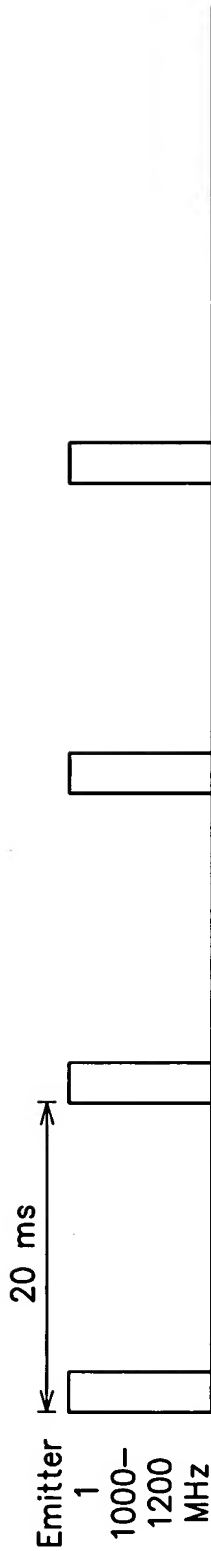
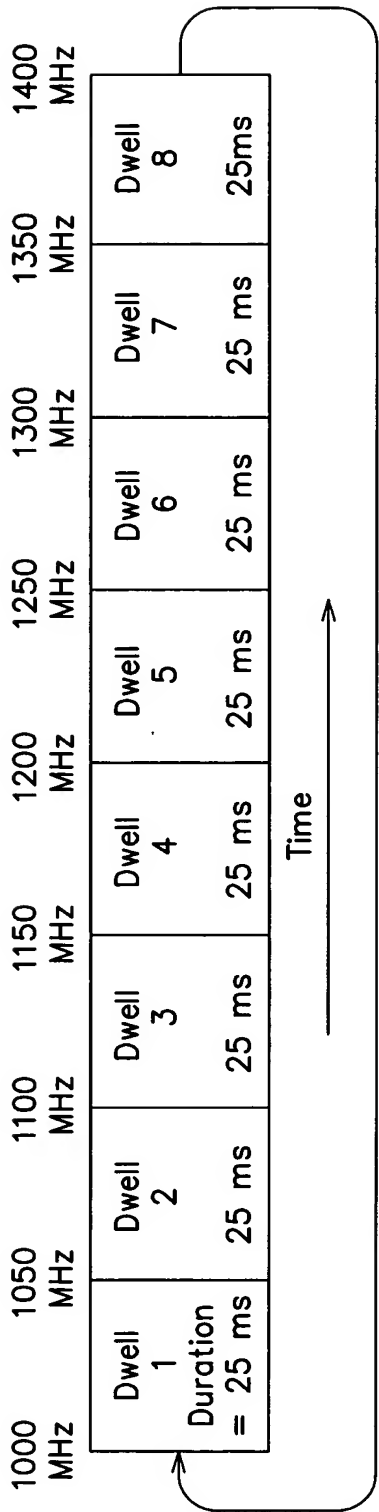


FIG. 11

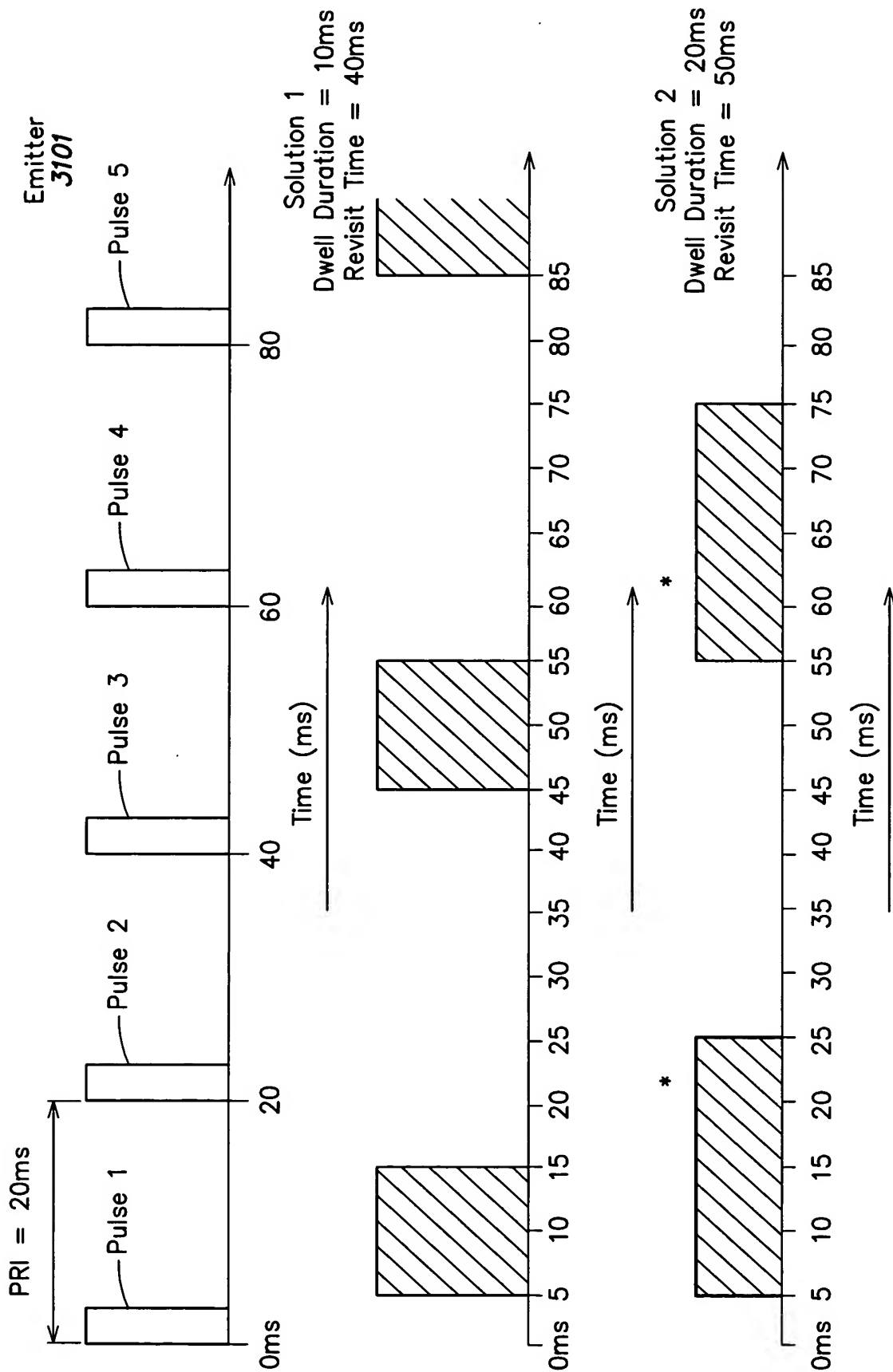
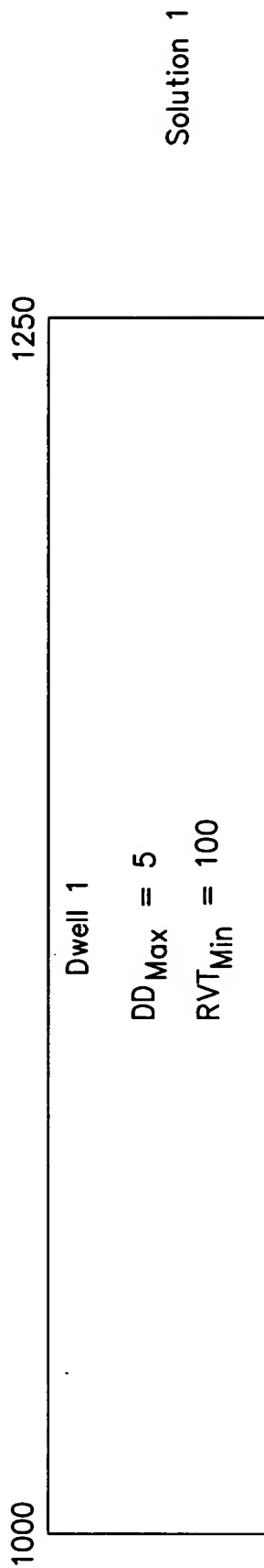


FIG. 12

4000

Emitter Name	Detecting Method 1 250MHz IF/ 15MHz VBW RVT	Detecting Method 2 30MHz IF/ 15MHz VBW RVT	RF Min (MHz)	RF Max (MHz)	Min MDT (ms)
E1	100 ms	650 ms	1000	1300	3
E2	120 ms	780 ms	1220	1350	5
E3	110 ms	330 ms	1510	1810	2
E4	130 ms	390 ms	1730	1860	4

FIG. 13



$$\text{Cost} = 5/100 = .05$$

	1000	1030	1060	1090	1120	1150	1180	1210	1240	1270	
Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7	Dwell 8	Dwell 9			
DD_{Max} 3	DD_{Max} 3	DD_{Max} 3	DD_{Max} 3	DD_{Max} 3	DD_{Max} 3	DD_{Max} 3	DD_{Max} 5	DD_{Max} 5			
RVT_{Min} 650	RVT_{Min} 650	RVT_{Min} 650	RVT_{Min} 650	RVT_{Min} 650	RVT_{Min} 650	RVT_{Min} 650	RVT_{Min} 650	RVT_{Min} 650			

Solution 2

$$\begin{aligned} \text{Cost} + \text{Cost} + \text{Cost} + \text{Cost} + \text{Cost} + \text{Cost} + \text{Cost} + \text{Cost} + \text{Cost} + \text{Cost} + \text{Cost} &= \\ 3/650 + 3/650 + 3/650 + 3/650 + 3/650 + 3/650 + 3/650 + 5/650 + 5/650 &\approx .048 \end{aligned}$$

Total
Cost

FIG. 14A

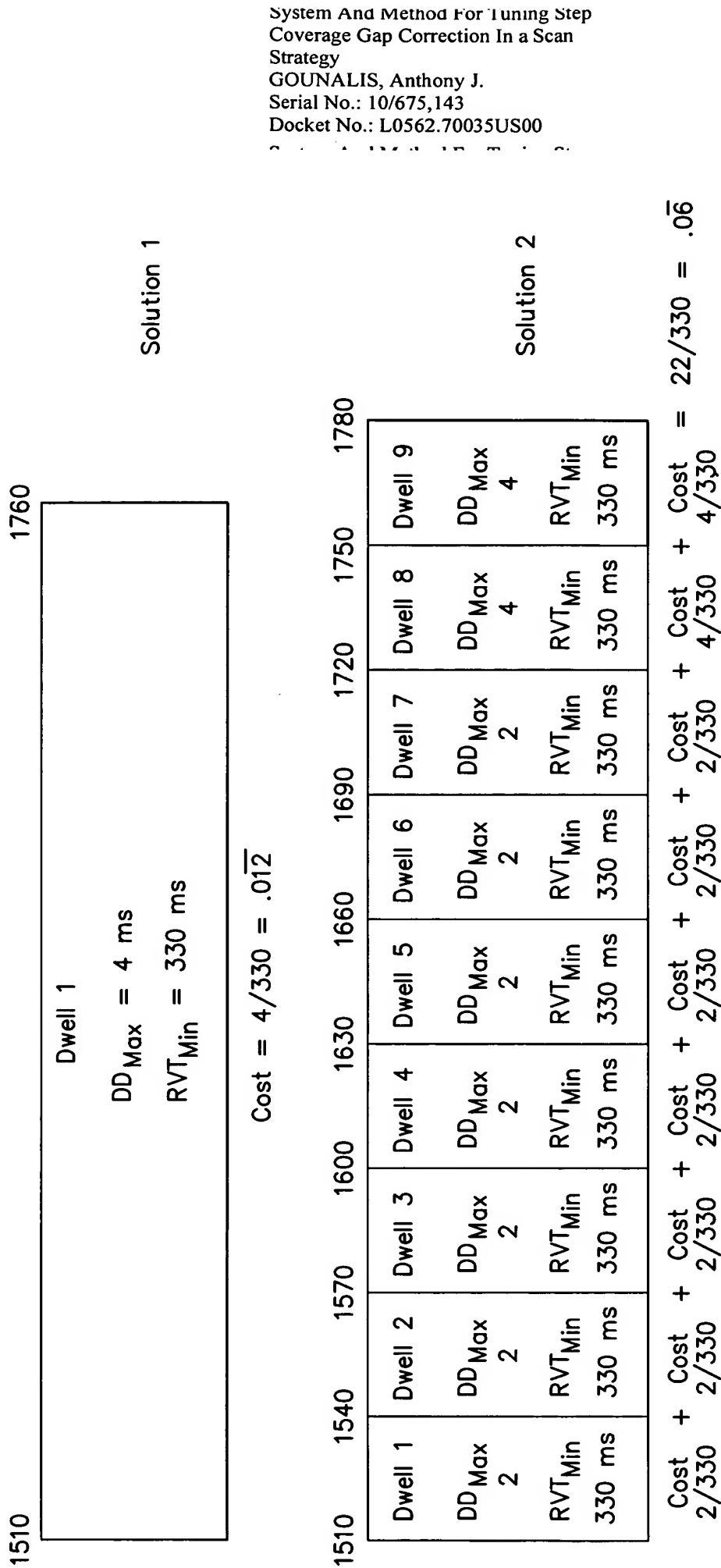


FIG. 14B

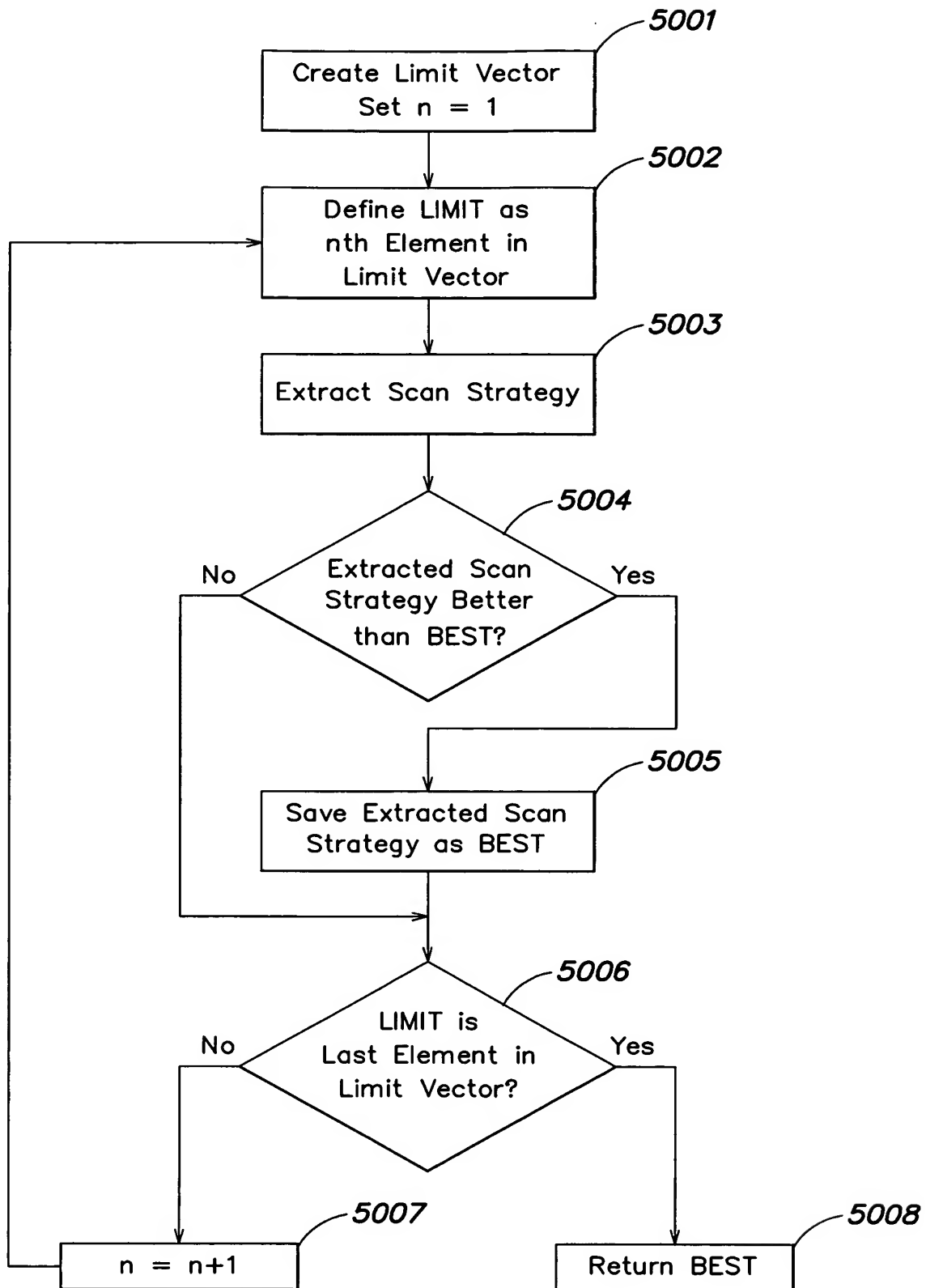


FIG. 15

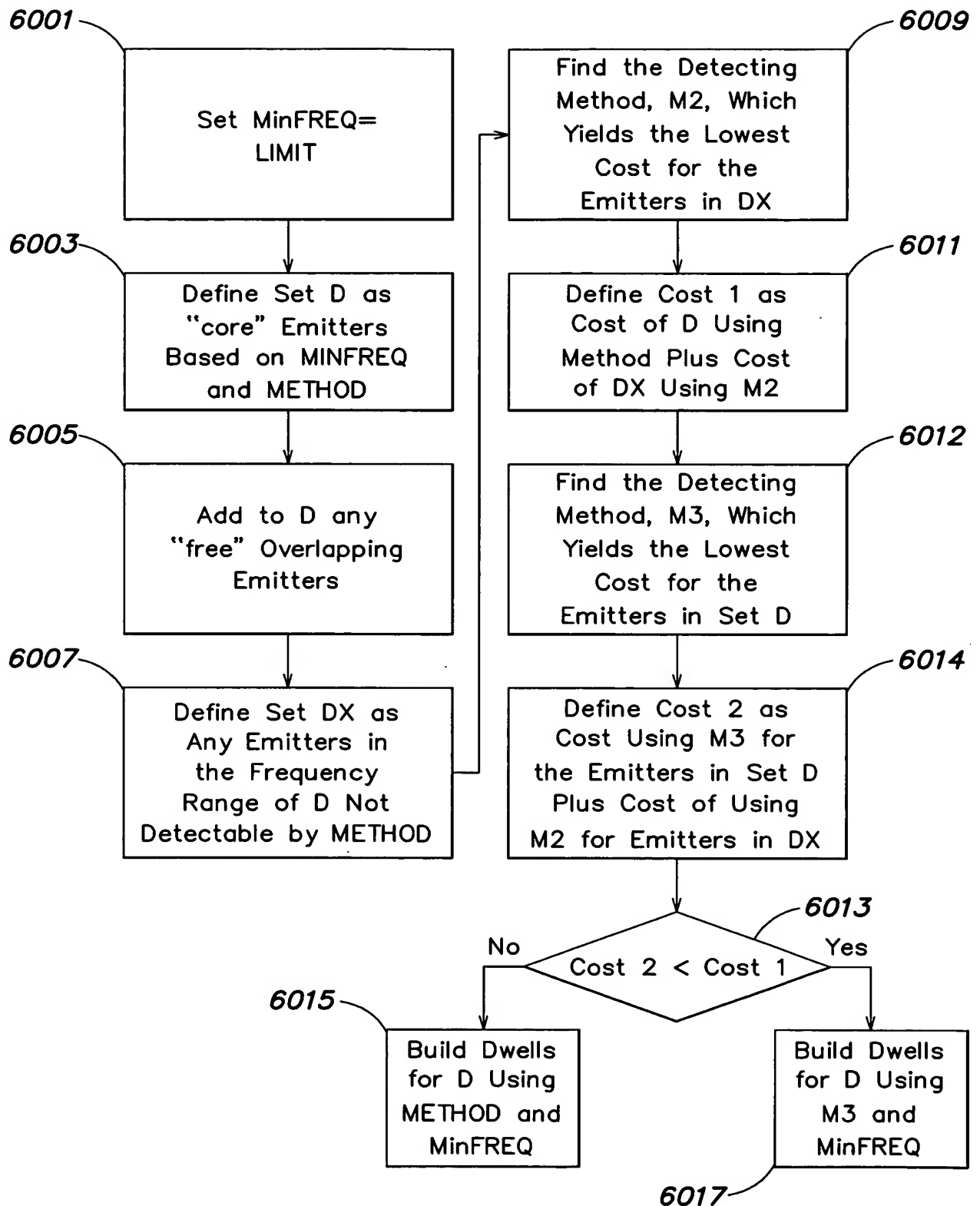


FIG. 16

Name	RF Min	RF Max
E1	1100	1200
E2	1150	1250

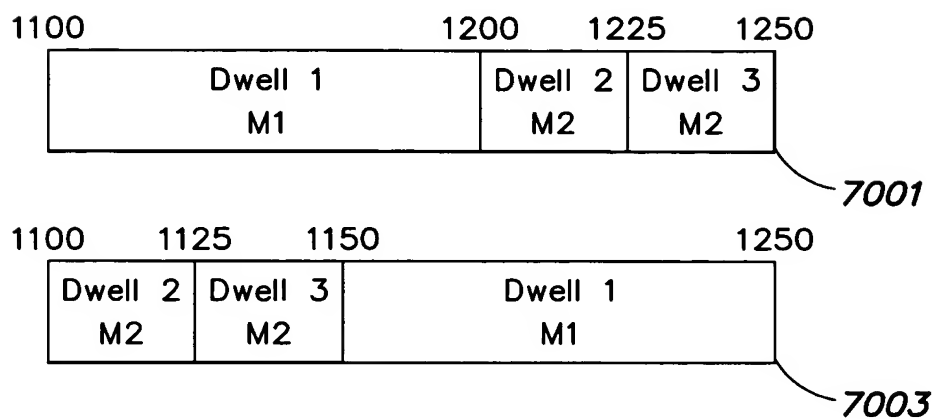


FIG. 17

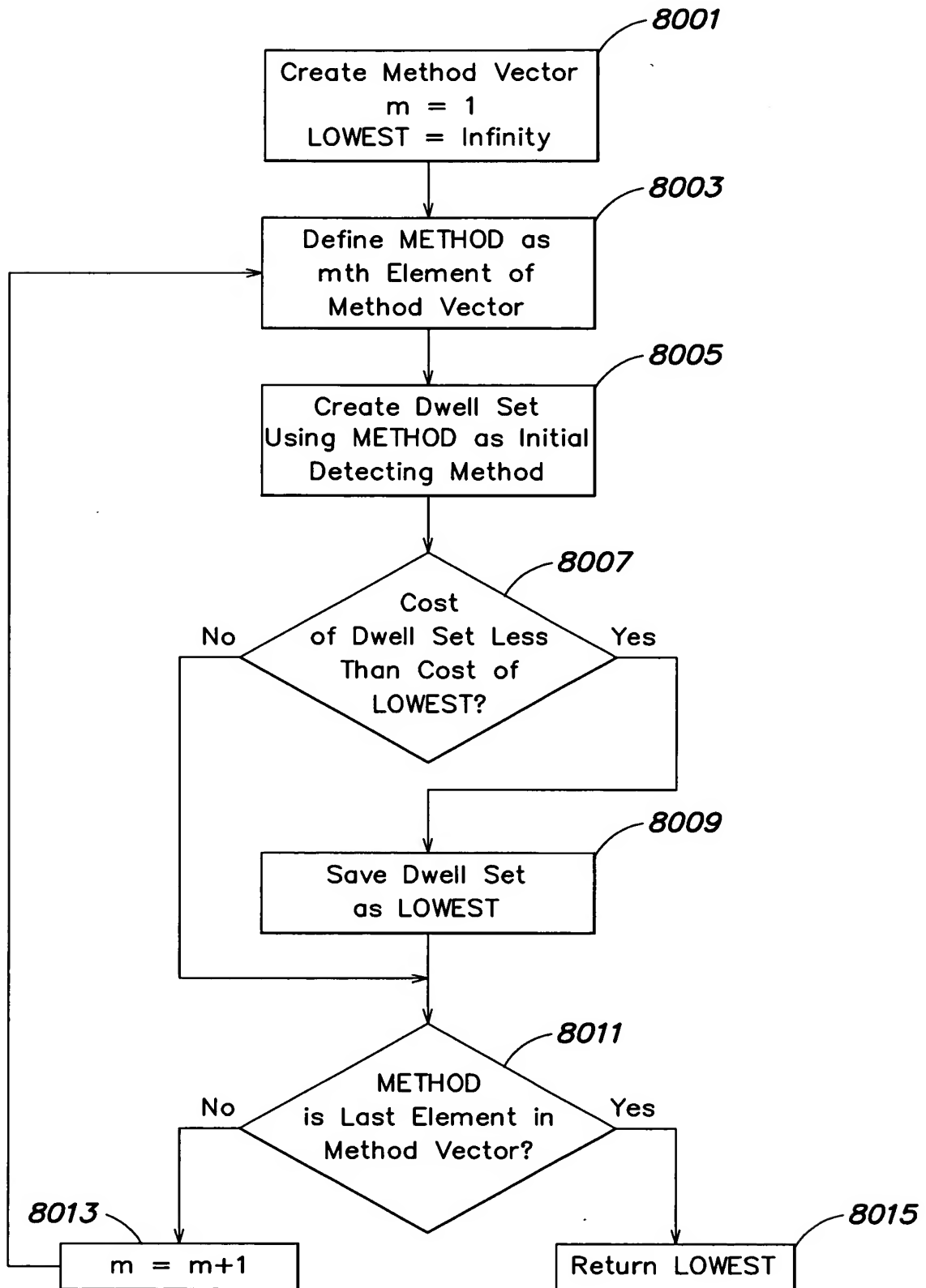


FIG. 18

Emitter	Dwell Duration (ms)	Revisit Time (ms)
Emitter 1	1	500
Emitter 2	2	1200

FIG. 19

Emitter	Dwell Duration (ms)	Revisit Time (ms)	Cost
Emitter 1	1	500	.002
Emitter 2	5	1000	.005

FIG. 20

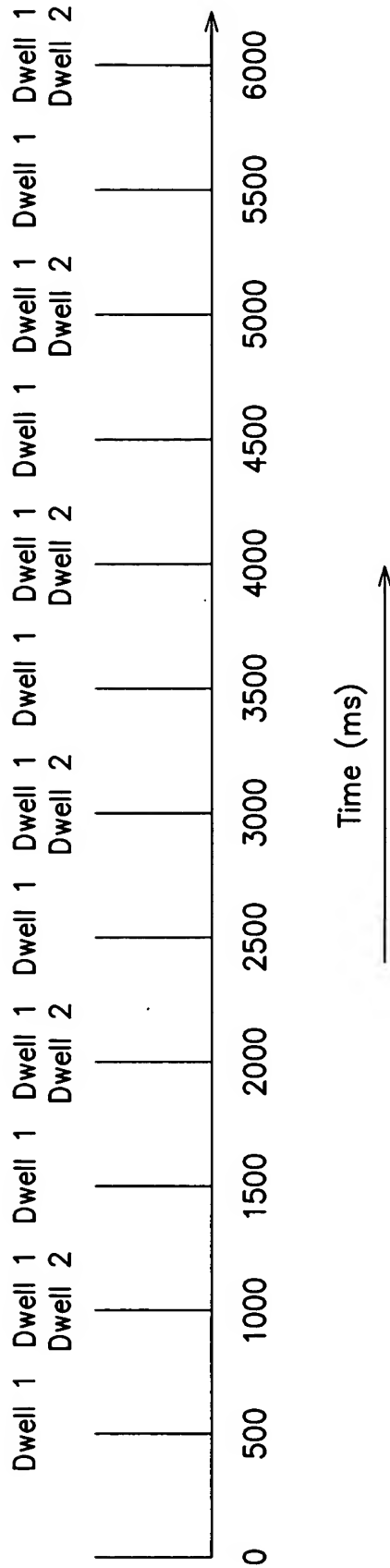


FIG. 21

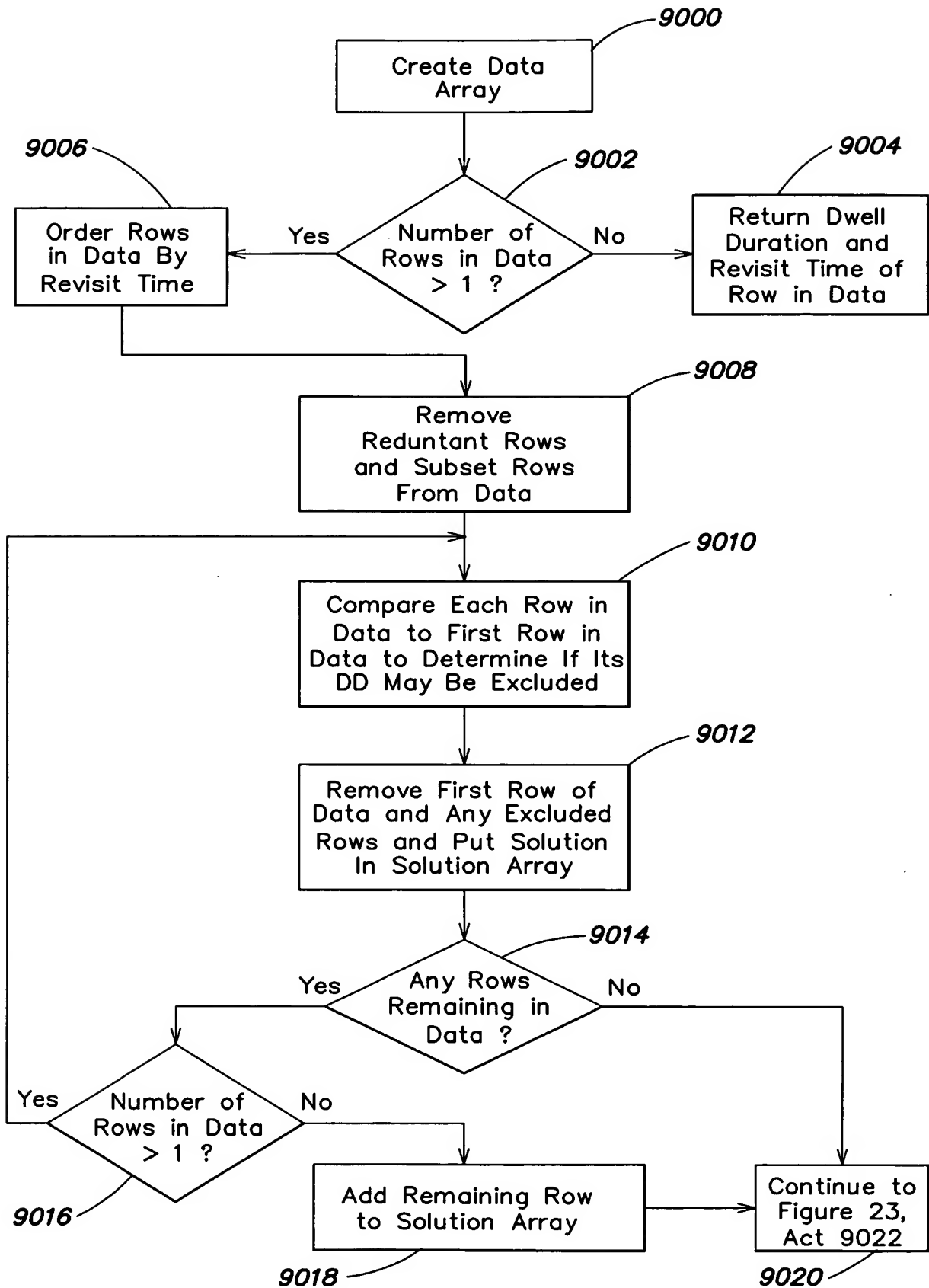


FIG. 22

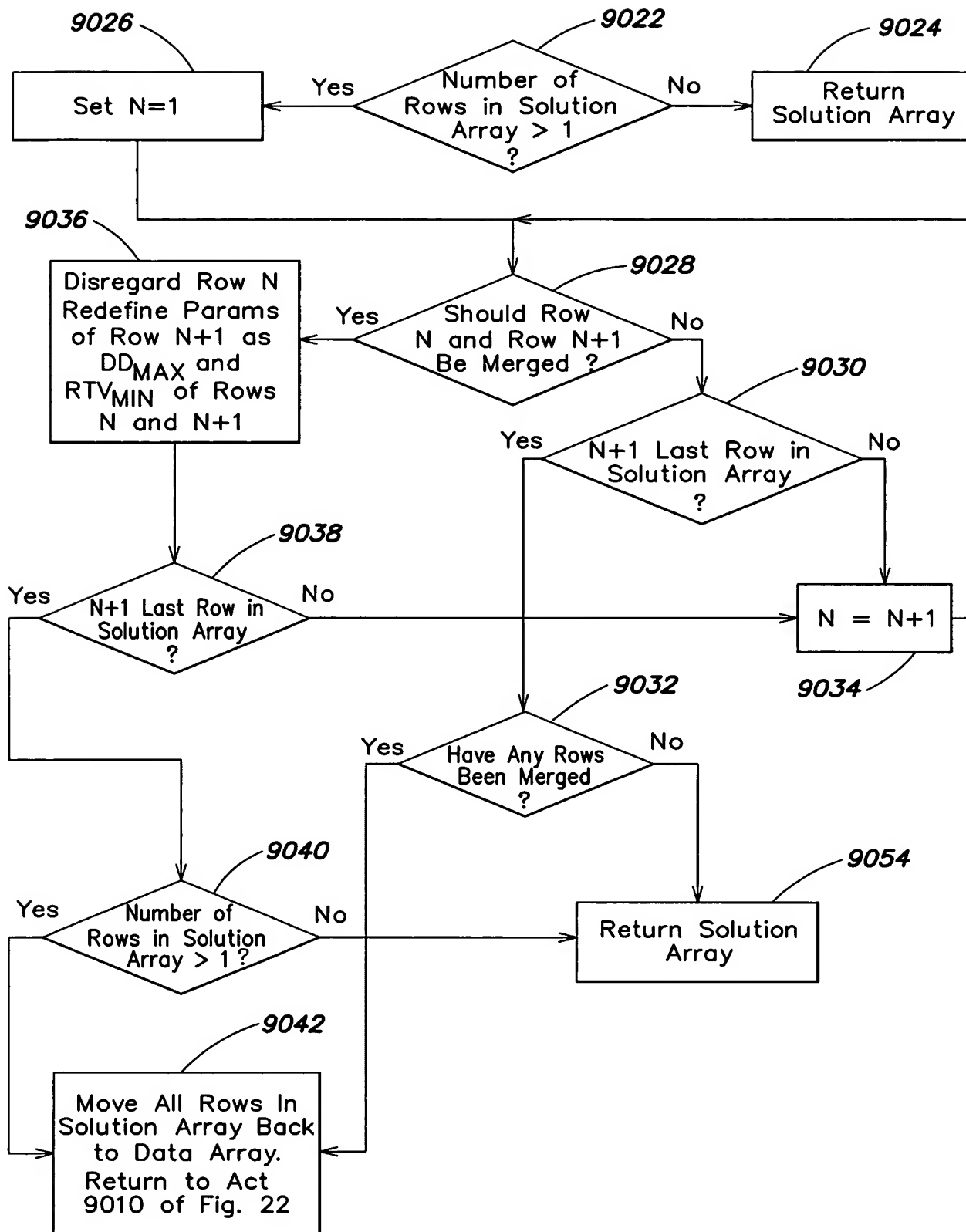


FIG. 23

9044

Data			
MDT	EDT	RVT	
1	7	500	9051
2	9	700	9052
2.3	11	800	
3	19	2000	
3.05	17	2868	

9044

Data			
MDT	EDT	RVT	
1	7	500	
2	9	700	
2.3	11	800	9048
0.5	3.5	1000	9049
3	19	2000	9050
3	19	2000	
3.05	17	2868	

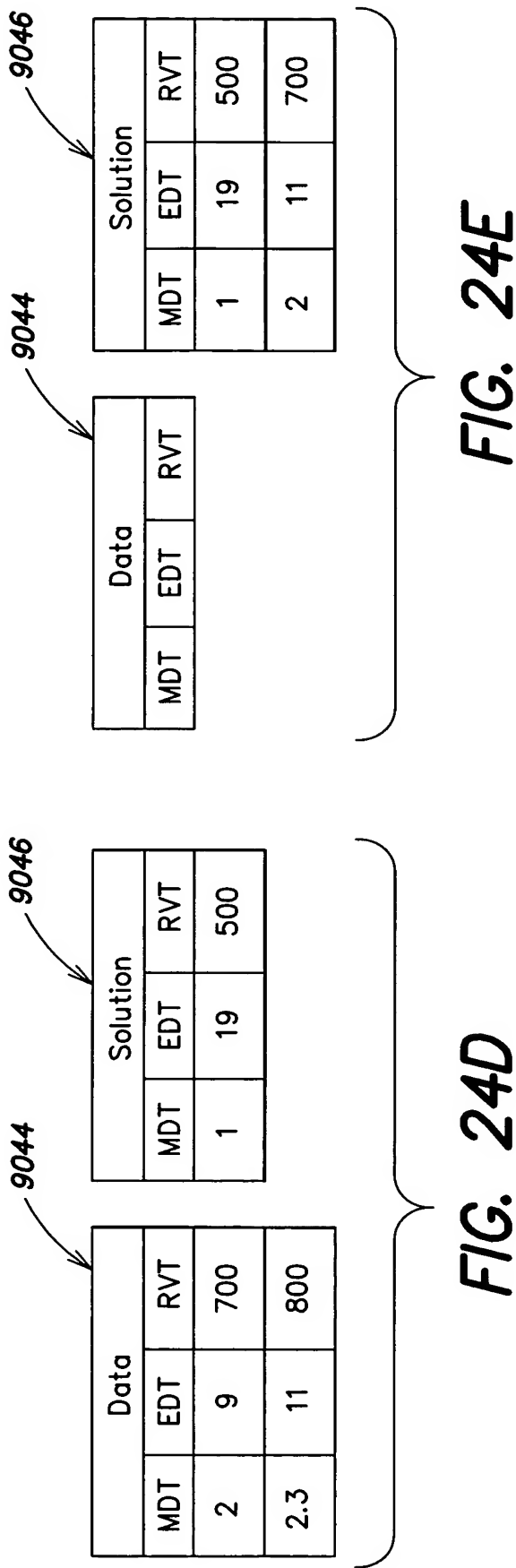
9044

Data			
MDT	EDT	RVT	
3.05	17	2868	
3	19	2000	
3	19	2000	
1	7	500	
2	9	700	
2.3	11	800	
0.5	3.5	1000	

FIG. 24C

FIG. 24B

FIG. 24A



9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

FIG. 24F

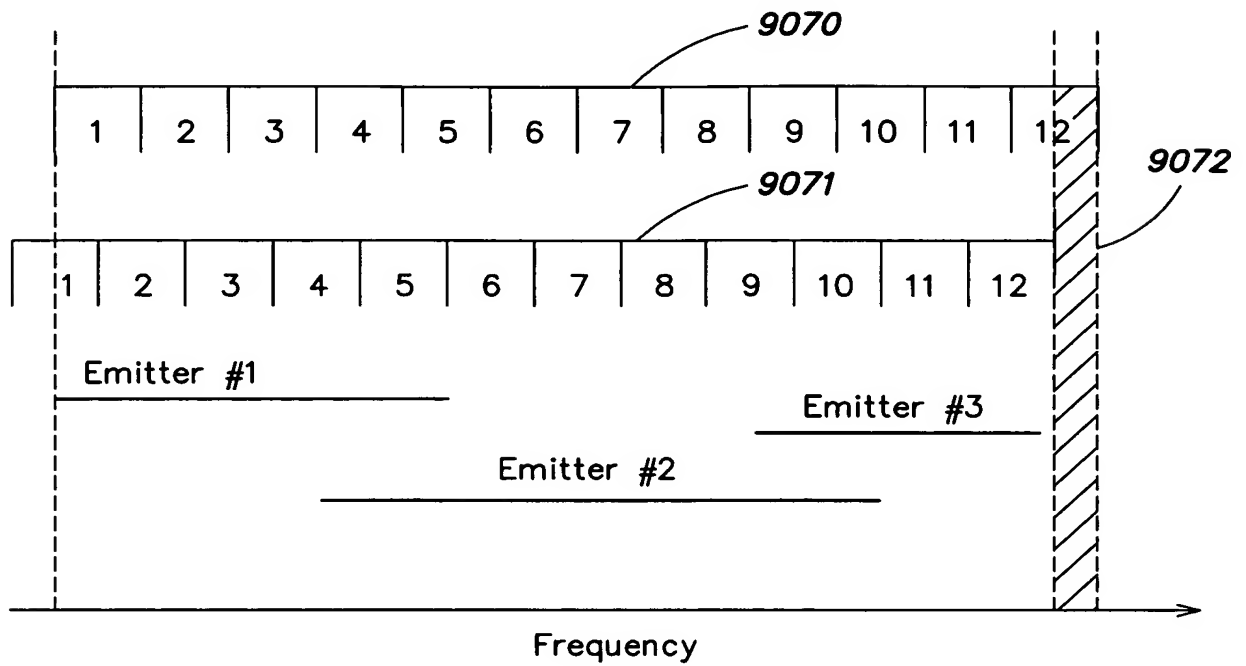


FIG. 25

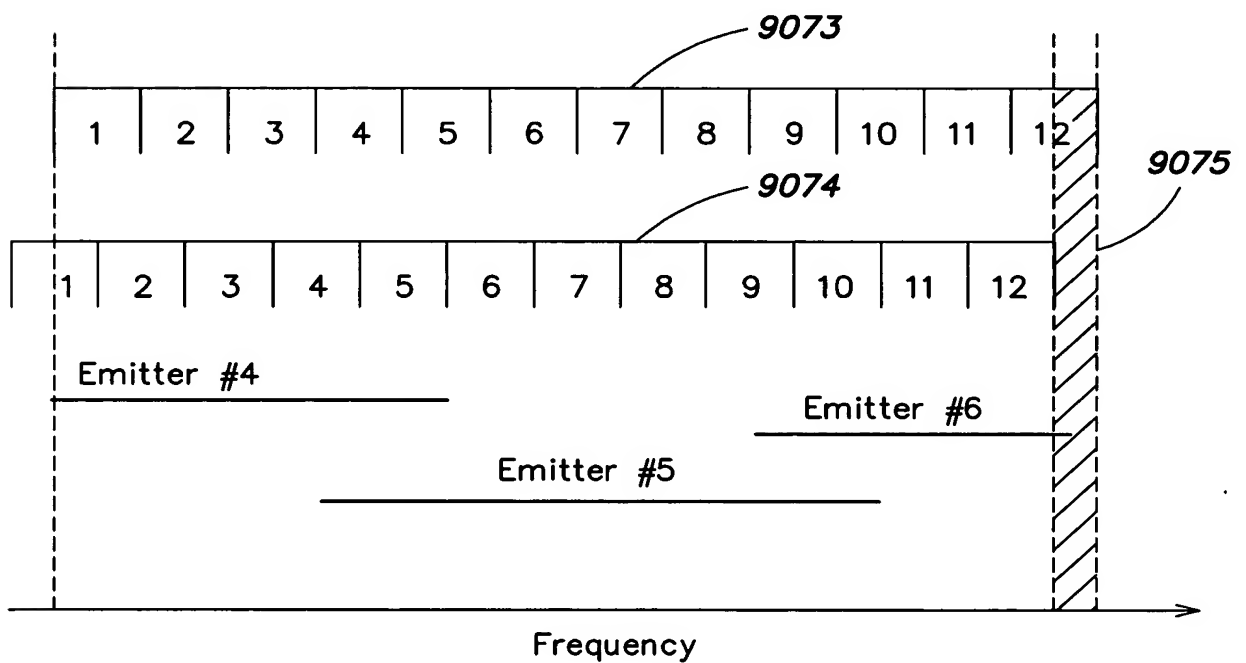


FIG. 26

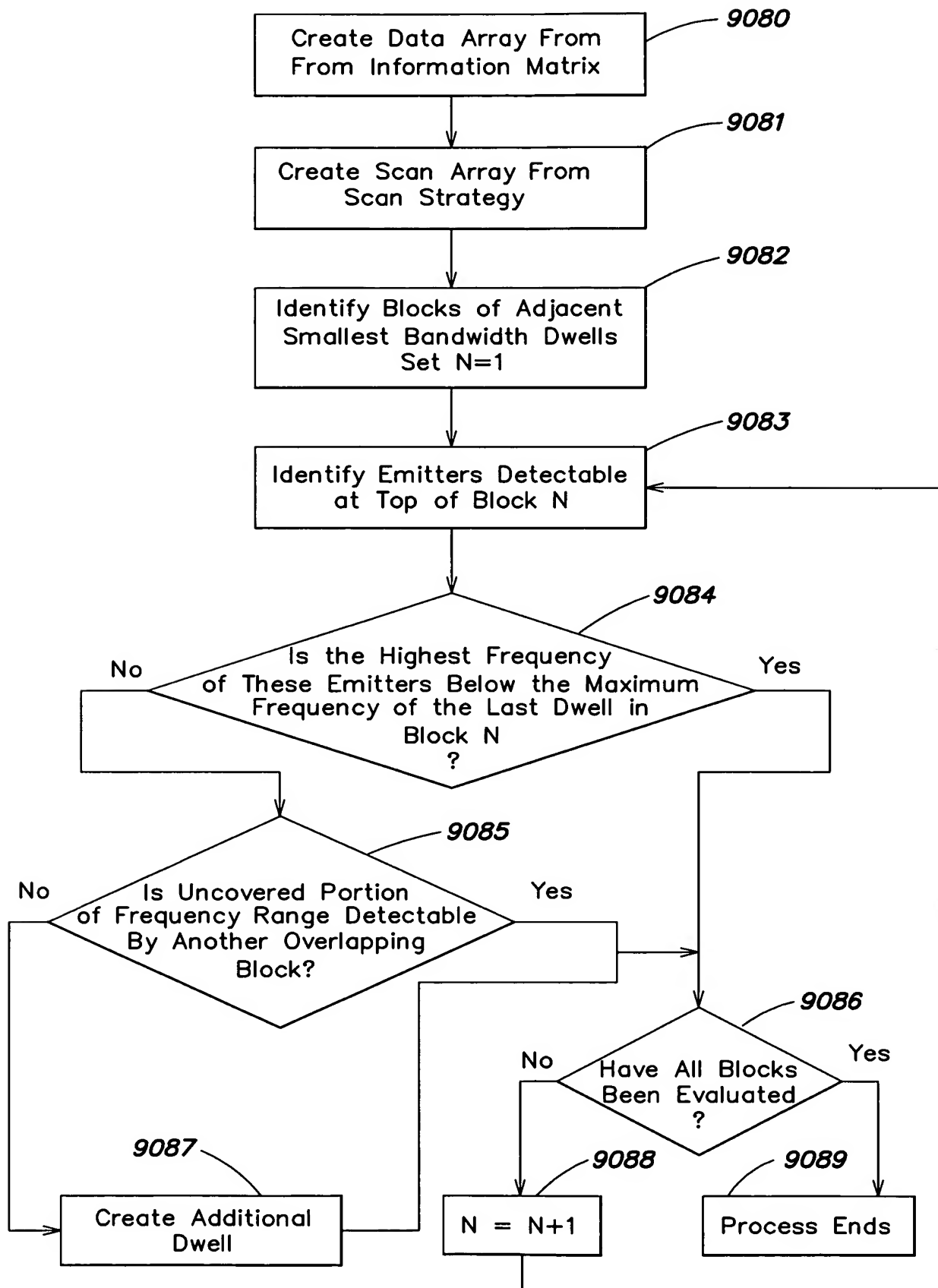


FIG. 27

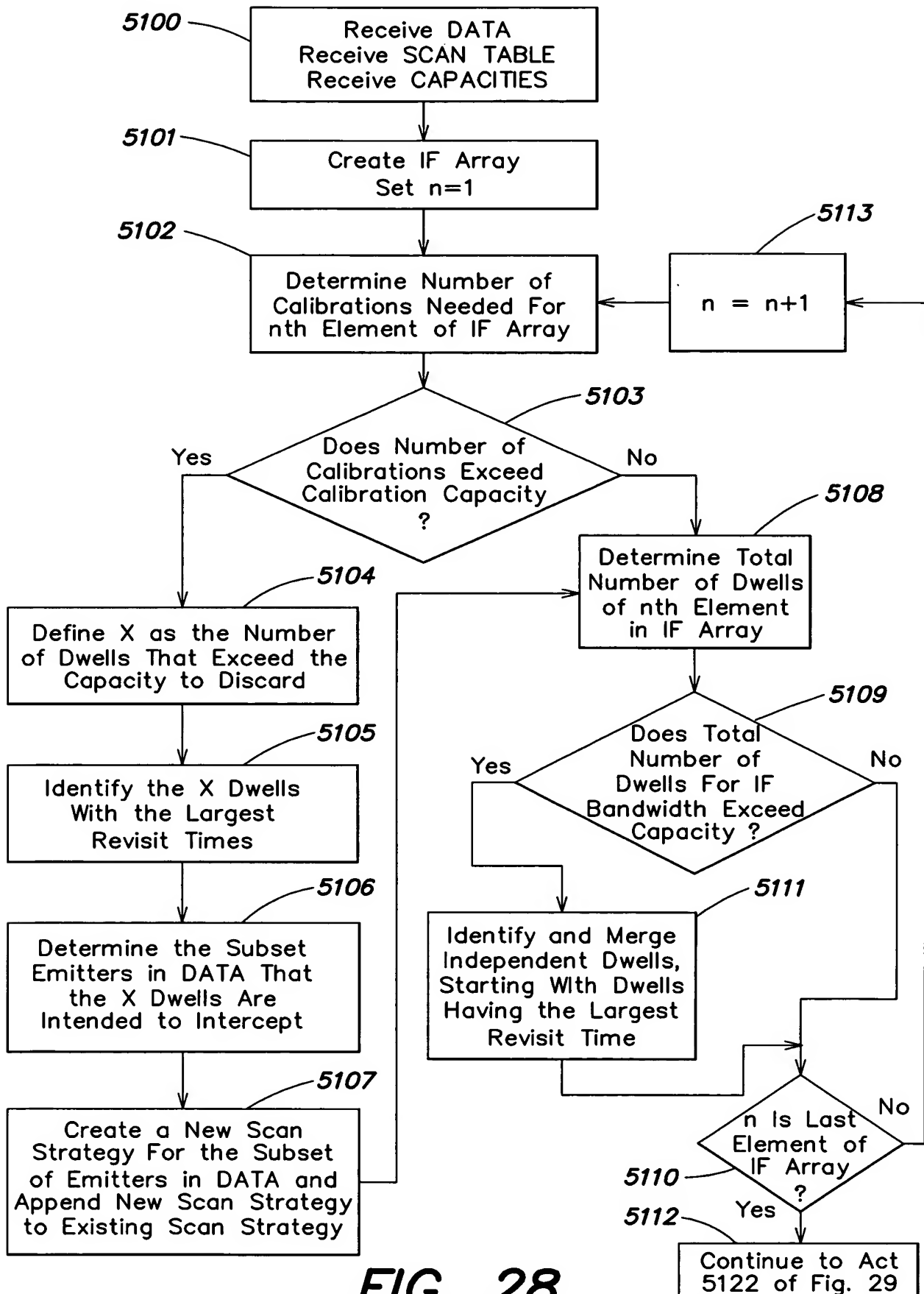


FIG. 28

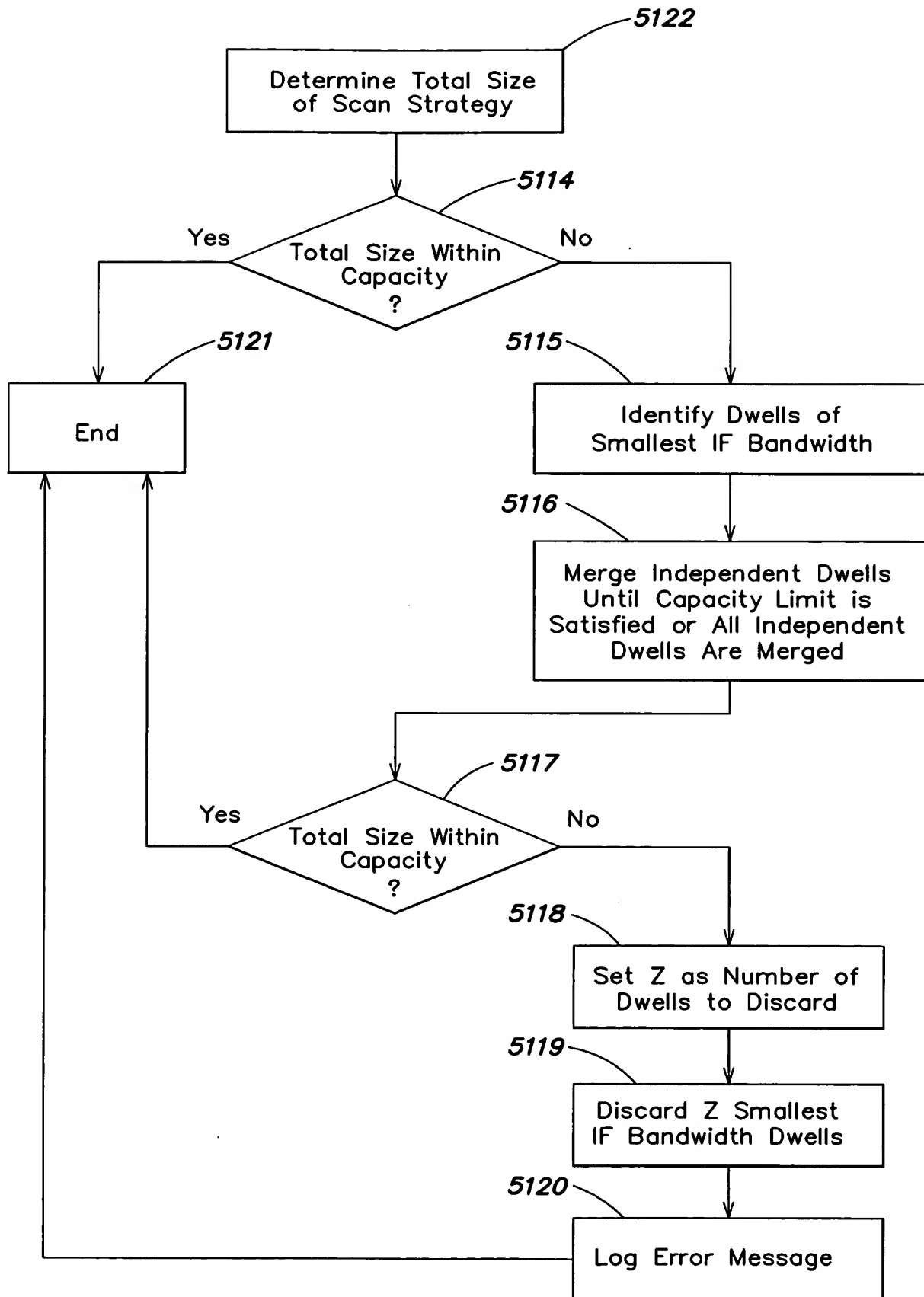


FIG. 29

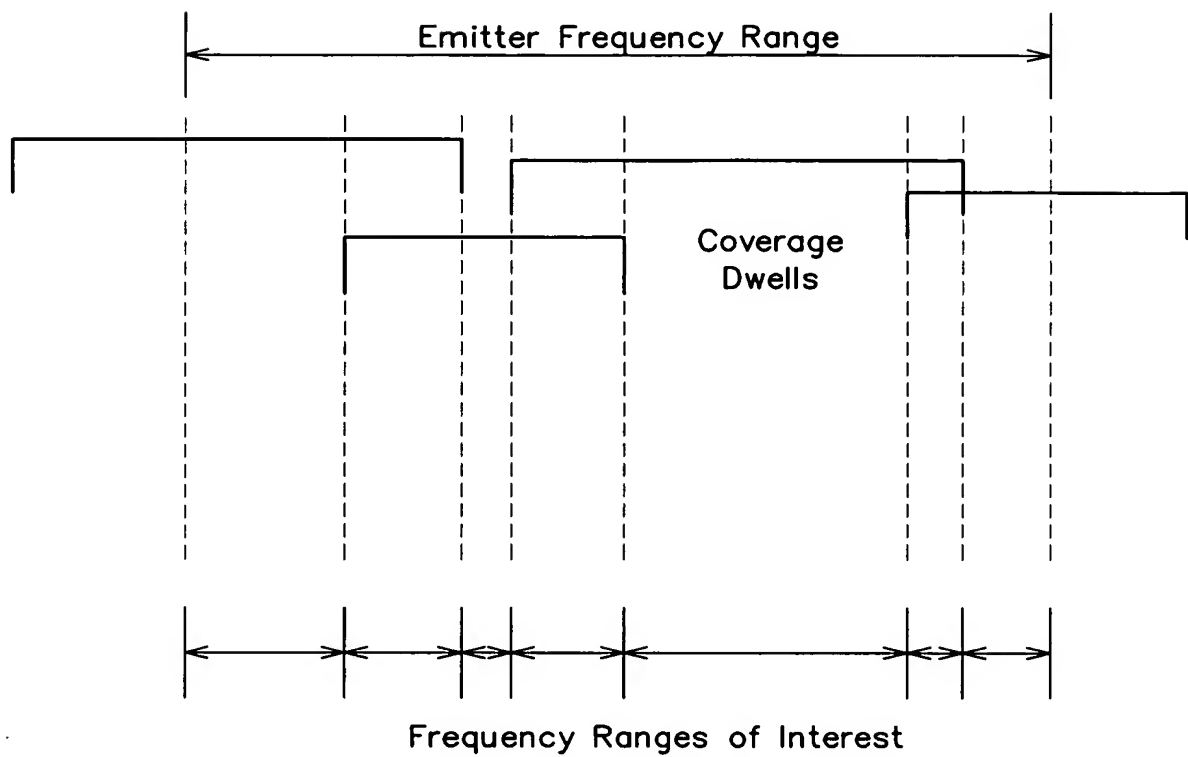


FIG. 30

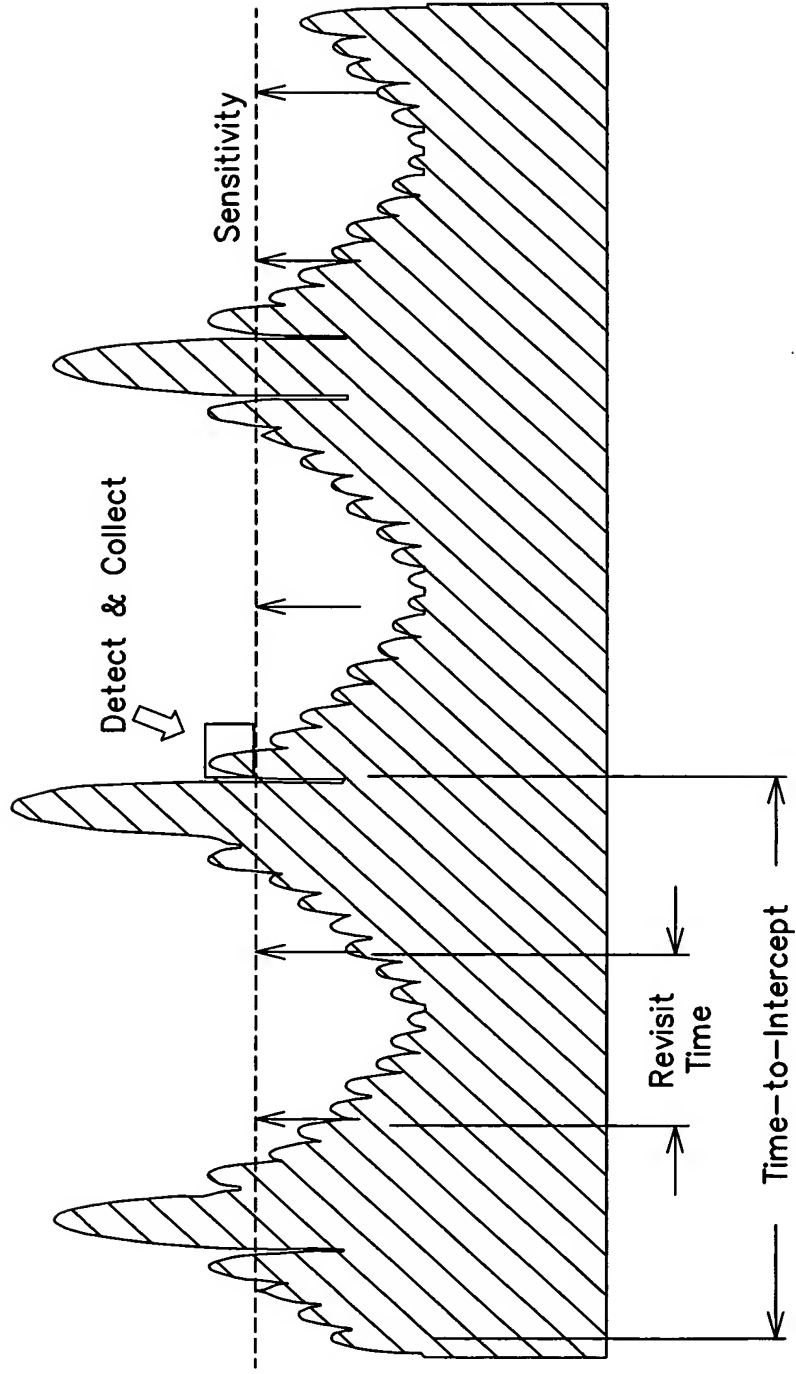


FIG. 31

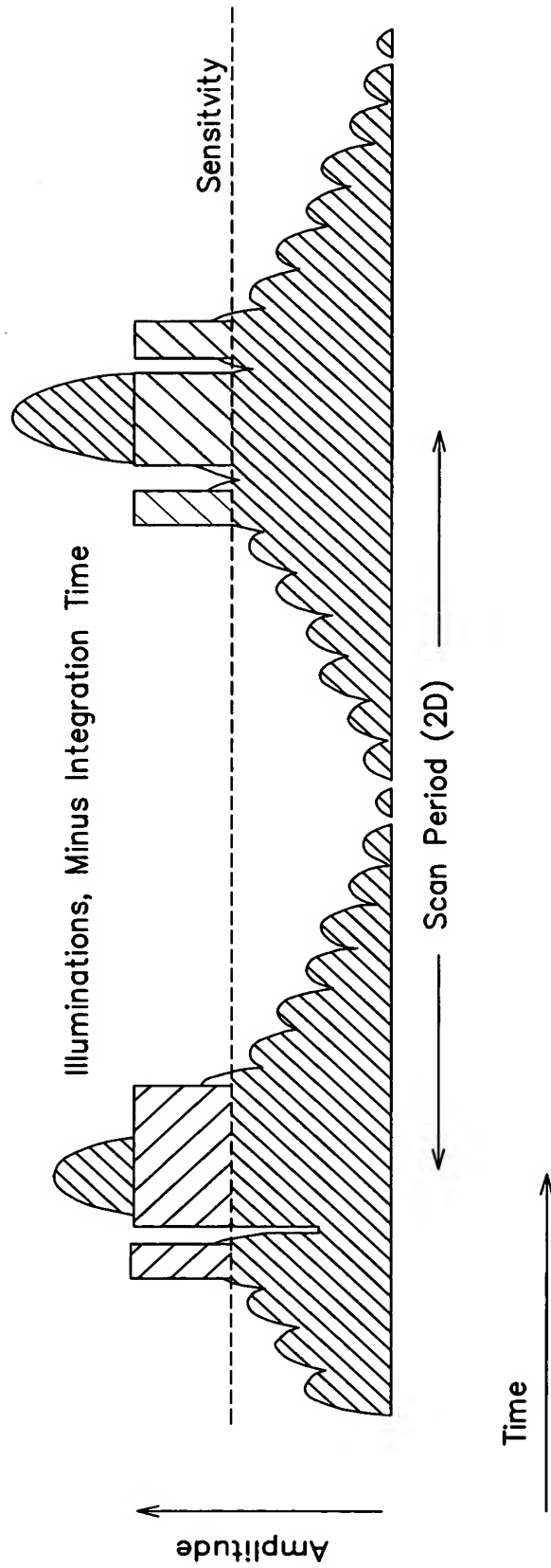


FIG. 32